



Biotechnology Industry Research Assistance Council (BIRAC)

(A Govt. of India Enterprise)

For programme details please visit http://www.birac.nic.in/bionest.php

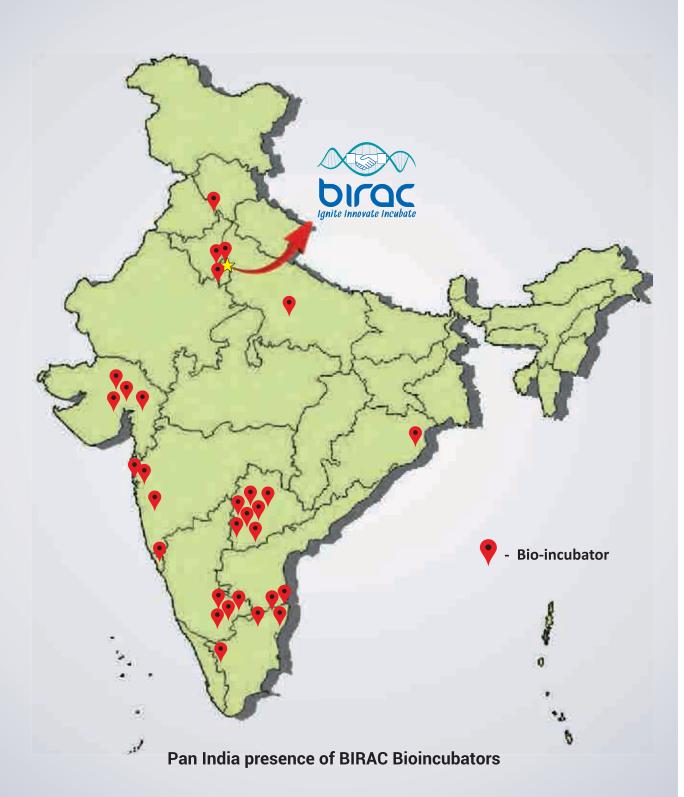
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Executive Summary

Biotech incubators offer a range of solutions to startups such as incubation space, high end instrumentation, scientific and business mentoring and last but not the least, access to networks and communities which are essential for a nascent biotech to put down roots. These solutions offered by the biotech incubators act like oxygen for survival of biotech start ups.

The economic benefits of bioincubation go beyond the usual framework of assessment that includes job creation within the bioincubators as well as by the resident startups, IP generation by residents, the facilitative environment for commercialization of new technologies emerging from the startups access to startups for follow-on funding. Cumulatively these factors increases the valuation of startups and help the startups to exit and move to the next level of enterprise.

The biotech innovation lifecycle is riddled with uncertainties at all stages of product development. Startups in biotech, face challenges that are different from the challenges faced by startups in other domains, such as IT, e-commerce. Starting a biotech venture is challenging, as one needs massive amounts of investments as well as specialized laboratories with access to high-end instruments. The typical 'garage startups' that are highlighted in IT world are a rare phenomena in the biotech world except for perhaps bioinformatics startups. In addition, securing early stage venture funds is difficult in the biotech as most Venture Capitalists (VCs) are reluctant to hedge bets on biotech startups considering the fact that the gestation period for products to be commercialized could take up anywhere between 7-12 years. The early

hurdles in biotech startups both in terms of access to 'space' for operations and R&D as well as seed funding are generally bridged by biotech incubators.

It is essential that Indian bioincubators function at par with the global best. Recent policy decisions by the Government of India in the areas of entrepreneurship development also takes into account the important role that incubators including bioincubators play.

BIRAC's BioNEST (Bioincubator Nurturing Entrepreneurship for Scaling Technologies)

BIRAC is cognizant of the needs of the biotech startups in the country and its portfolio for entrepreneurship development includes not just funding but also support for bioincubation - a crucial determinant for developing a holistic ecosystem of support network for biotech enterprises. Through the BioNEST, BIRAC has extended funding support to 30 bioincubators across the nation. Each of these bioincubators have been selected based on an assessment matrix that evaluates their capabilities in supporting biotech ventures as well as ability to create an ecosystem around them. These 30 BIRAC supported bioincubators provide nesting grounds for many biotech startups including those startups that are directly funded by BIRAC.

Each of the bioincubator is also creating building blocks of a bio-innovation ecosystem which will add value and foster the growth of biotech startups.







The booklet showcases the bioincubators that have been supported by BIRAC and the impact they have created regionally and at the national level.

The synergistic effect of funding, incubation and other support mechanism will create an optimal environment for biotech startups to grow rapidly.

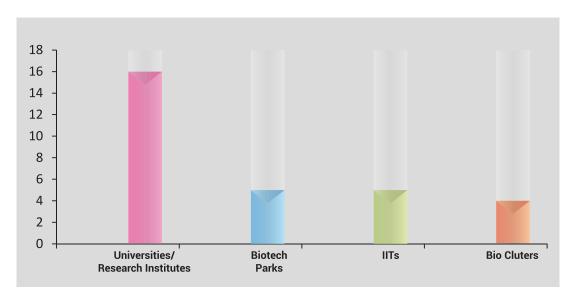
Impact Created by BIRAC's BioNEST Programme

Over the years BioNEST has created an excellent impact by creating an infrastructural ecosystem for innovation. To create an impact these incubators are selected based on their capabilities to support Bio-startups. Some of the aspects for selection are geographical

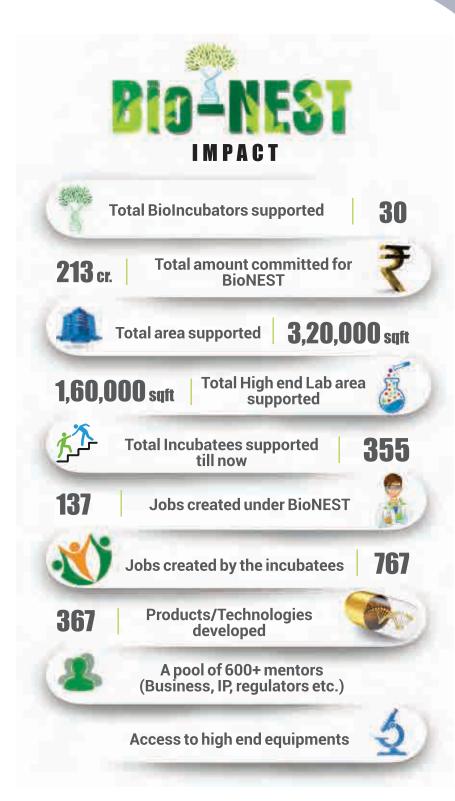
location, existing ecosystem in and around these centers, startup culture, earlier experience and expertise in incubation, technical and research institutional in around these centers, space and facilities that can be contributed by incubator etc. Considering these factors the incubators were supported at Stand Alone Parks/Bio Parks, Indian Institute of Technologies, Universities/Research Institutes, Biotech Clusters.

BIRAC has created a noticeable impact through Bioincubator support programme. Till now INR 213 crore of funds has been sanctioned for the thirty projects.

Through BioNEST support BIRAC has supported 3,20,000 sqft of Bio-incubation space and around 300 startups.



Target Groups where the BIRAC Bioincubators are located





1
Bio-NEST

Sr.No.	Incubators Name
1	IKP Knowledge Park, Hyderabad
2	Venutre Center - Entrepreneurship Development Center, Pune
3	PERD Bio-incubator, Ahmedabad
4	ZTM & BPD Unit, IARI , New Delhi
5	Savli Technology and Business Incubator (STBI), Vadodara
6	Centre for Cellular & Molecular Platforms (C-CAMP), Bangalore
7	SIDBI Innovation & Incubation Centre (SIIC), IIT Kanpur
8	IITM Bioincubator , Chennai
9	Biotechnology Business Incubation (BBIF), FITT, IIT Delhi
10	Society for Bio-Technology Incubation Center, Hyderabad
11	KIIT Technology Business Incubator, Bhubaneswar
12	RCB_BioNEST, Faridabad
13	MedTech Incubator (MTI) IIT Madras - HTIC, Chennai
14	MS Swaminathan Bio-incubation Centre, Golden Jublee Biotech park for Women, Chennai
15	Ahmedabad University BioIncubator, Ahmedabad
16	Bangalore BioInnovation Center, Bangalore
17	Agri BioNEST (A joint initiative of a-IDEA NAARM & ABF) Hyderabad
18	Society for Innovation and Entrepreneurship, Mumbai
19	BITS BIRAC BioNEST, Goa
20	IKP Eden, Bangalore
21	BIRAC Bio-NEST Incubator @ ICAR-IIHR, Bangalore
22	ICRISAT, Hyderabad
23	BioNEST-Panjab University (BN-PU), Chandigarh
24	Sanctuary of Innovation, Incubation and Entrepreneurship, Ahmedabad
25	University of Hyderabad - BioNEST, Hyderabad
26	PSG- Science and Technology Entrepreneurial Park (PSG-STEP), Coimbatore
27	VIT-Technology Business Incubator (VITTBI), Vellore
28	Somaiya BioRiiDL BioNEST, Mumbai
29	IIIT Hyderabad
30	LV Prasad Eye Institute





IKP Knowledge Park

Location: Hyderabad, Telangana

Focus Area: Bio-pharmaceutical, Bio-agriculture, Bio-industrial

Total area: 10,013 sqft with Lab space of 3,900 sqft

Specialized facilities:

Analytical facilities along with shared equipment facility are available.

They have access to animal facility

Funding Opportunities: Seed funding from NSTEDB, TDB Grant funding programmes run by IKP in partnership with BIRAC BIG, Gates Foundation, USAID, DFID etc

High End Instruments:

 ICPMS, GCMS, Particle Sizer, DSC and TGA, NMR-400 MHz, UPLC MS-MS and Image Express Microscope

Ecosystem related Support:

Life Science Incubator is situated at IKP Knowledge Park which is 200-acre premier Science Park. The R & D unit of various companies like Daicel, ITW, AMRI, Biological E, Coromandel are in the same campus. Apart from that, anchor companies like DuPont, US Pharmacopeia, Laurus Labs, Adama, Sai Life Sciences are situated at IKP campus.

Impact:

Programme and the second secon		
Total Resident Incubatees	:	65
supported till now		
Present Incubatees	:	14
 Graduated Incubatees 	:	51
• Technologies/Products developed	:	161
 Jobs created by Incubator 	:	8
 Jobs created by Incubatees 	:	235





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Venture Center-



Entrepreneurship Development Center

Location: Pune, Maharashtra

Focus Area: Bio-pharmaceutical, Bio-services, Bio-agriculture, Bio-industrial, Bio-informatics alongwith Biomaterials, Biomedical - devices, diagnostics, implants

Total Area: 10,900 sqft with a Lab space of about 7,000 sqft

Specialized facilities:

- · Access to Clinical facility at Deenanath Mangeshkar Hospital, Jehangir Hospital
- BSLII facility

High End Instruments:

- High Resolution Mass Spectrometry Services-http://www.venturecenter.co.in/ cams/services.php
- · MP-AES Services http://www.venturecenter.co.in/docs/Term s&Pricing-MP-AES_analysis.pdf
- Flow cytometer Services http://www.venturecenter.co.in/docs/Term s&Pricing-Flow-Cytometry.pdf
- Confocal laser scanning microscope Services - http://www.venturecenter.co.in/ docs/Confocal-Microscopy-Terms& Pricing.pdf

- Mechanical testing instrument Services http://www.venturecenter.co.in/docs/Term s&Pricing-Mechanical_Testing.pdf
- Bose Electroforce System 3200 Series III http://www.venturecenter.co.in/docs/Term s&Pricing-Mechanical_Testing.pdf
- Ultra centrifuge XE-90

Ecosystem related Support:

- · Academic Institutes IISER, NCL, NIV, NCCS, COEP, NARI, University of Pune, TISS-Mumbai.
- Hospitals/Clinical Facilities Deenanath Mangeshkar Hospital, PCCM, KEM, Tata memorial Hospital-Mumbai, Jehangir Hosptial.
- Industry-PRAJ, Sai Lifescience, Intox, KK Nag Industries, PRADO. Ecosystem Partners - Lega Logic, Baheti and Somani. Pune International Center

Impact:

Resident Incubatee : 62 Graduated Incubatees : 33 Technologies/Products developed: 63 Jobs created by Incubator : 17





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PERD Bio-incubator

Location: Ahmedabad, Gujarat

Focus Area: Pharmaceutical Biotechnology, Bitechnology, Medical devices, Bio-services.

Total area: 3627 Sq.Ft. with a Lab space of about 1000/-Sq.Ft

Specialized facilities: Individualy ventilated four clean rooms (BSL II), Preclinical facility support from host institute, Corporate style, office area, meeting room, waiting area, reception.

High End Instruments: Fluorescent Assisted Cell Sorter, Real Time PCR, Fast Protein Liquid Chromatography, 2Dige, Electroporator, High end inverted and upright microscope, Chemidoc

Ecosystem related Support: Research ambience, analytical support, and expert support of host institute, access to hospitals, net support of host institute for metoring from industry and academia

Impact:

- Total Resident Incubatees : 5 supported till now
- Present Incubatees
- Graduated Incubatees : 5 Technologies/Products developed : 5

: 10

Jobs created by Incubatees





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ZTM & BPD Unit

Location: IARI, New Delhi



Focus Area: Agri biotech, Seed technology, Biofertilizers

Total area: 5000 sqft

Specialized facilities: High-end analytical lab, Microbial lab, Utility Lab, Bio-molecular analytics for Biofertilizers

Brief description: With BIRAC support, a microbial laboratory for the development of novel microbial technologies for agri-sector has been developed at Div of Microbiology, IARI, New Delhi. It works in conjunction with commercial biofertilizer production unit. The facility houses equipments for microbial, molecular and certain analytical work

Other support: Technical and Business mentoring to farmers, agri startups, R&D facilities for students and researchers

Impact:

- Facilities are being used by associates as scientists/students of IARI and other institutes.
- Technologies developed: Two technologies
- Generated funds through PPP





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Savli Technology and **Business Incubator [STBI]**

Location: Savli, Vadodara,

Focus Area: Bio-pharmaceutical, Bio-services, Bio-agriculture, Bio-industrial, Bio-informatics

Total area: 15,165 sq.ft with lab space of 6650 sq.ft.

Specialized facilities:

- Sophisticated Common Instrumentation facility with instruments like HPLC, Lyophilizer, etc.
- Scale Up Facility with Fermenters (2-15 L)
- Dedicated Plant Tissue Culture Laboratory with capacity of production of 10 lac plants/annually
- · Microbial Technology Lab, Inoculation facility, dedicated office facility, Board rooms, Seminar Hall, etc.

Funding Opportunities:

- STBI facilitates Incubatees in availing funding from Govt. of Gujarat from various schemes such as the Biotechnology Policy 2016-21, Industries Policy, etc. as also from Govt. of India from various schemes such as PRISM. BIG.etc.
- · STBI is also nodal institute recognized by Government of Gujarat for Startup Gujarat Scheme for supporting Innovation/Startup.

STBI shall provide Seed funds subject to the merit of the project(s) and availability of BIRAC SEED fund scheme.

High End Instruments: High Performance Liquid Chromatography; Lyophilizer, etc.

Ecosystem related Support: Located in a State Govt. promoted Biotech Park, linkages with Industry; Closely linked with State Nodal Agency; local linkages with Centres of Excellence, Universities, etc.; MOU with DDIT, Nadiad; SICART for use of sophisticated instruments; etc.

Impact:

- Total Resident Incubatees supported till now: 07 Resident & 8 ideation
- Present Incubatees: 05 Resident & 3 Ideation
- Graduated Incubatees: 02 Resident & 5 Ideation
- Technologies/Products developed: 2 Proof of concept developed and marketing of technologies are in process
- Jobs created by Incubator: 12
- Jobs created by Incubatees: 18



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Centre for Cellular & Molecular Platforms (C-CAMP)



Location: Bangalore, Karnataka

Focus Area: Life Sciences & Biotechnology -Drug discovery, Bio-pharmaceuticals, Medical devices & Diagnostics, Molecular biology, Transgenic model systems, Biomaterials, Synthetic biology, Upstream & downstream processing, Agricultural sciences, Nutraceuticals etc.

Total area (along with total lab space):

Approx. 11,000 Sq. ft with 8200 sq ft Lab area

Specialized facilities: High-end Technology Platforms including Imaging Facility, Flow Cytometry, Mass Spectrometry facility, High Throughput Screening, Next Generation Genomics facility, Protein Technology Core, Transgenic Fly Facility and Microfluidics and Microfabrication Facility

Funding Opportunities: C-CAMP runs Grantin-aid scheme, Biotechnology Ignition Grant (BIG) with BIRAC as partner. Also C-CAMP equity based funding of upto INR 30 Lakhs with BIRAC's SEED Scheme and as a part of NITI Aayog's scale-up funds. C-CAMP also runds MSME's seed funding for young innovators and start-ups.



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Ecosystem related Support:



Impact:

 Total Resident Incubatees supported till now : 35 Present Incubatees : 22 Graduated Incubatees : 13 Technologies/Products developed : 10 Jobs created by Incubator : 8





SIDBI Innovation & Incubation Centre (SIIC), IIT Kanpur

Location: Kanpur, Uttar Pradesh

Focus Area: Bio-pharmaceutical, Bio-services, Bio-agriculture, Bio-industrial, Bio-informatics

Total area: 28,000 sqft with Lab space of 17,000 sqft

Specialized facilities:

- · Analytical Lab, DSP Lab, Microbial Lab, Utility Lab, Clean Room for CCPD Lab, Clean Room for Cell Culture Lab, BSL II facility available
- · Animal house with state of art facility for rats, rabbits and mice
- · Access to Clinical facility (MoU with SGPGI Lucknow)

Funding Opportunities: SIIC may provide seed loan subject to the availability of funds/grants/ schemes meant for this purpose. The seed loan limit ranges from Rs. 15 to 25 lakh, BIRAC's BIG scheme partner, Other Govt. funding schemes such as PRISM (Promoting Innovations in Individuals, Start-ups and MSMEs) etc. are available

High End Instruments: Lab Scale Liquid Chromatography System, Fast Protein Liquid Chromatography, Electric Focusing System

Ecosystem related Support: Research Park sanctioned access to all departments of IITK, MOU with SGPGI. Lucknow and other institutes.

Impact:

 Total Resident Incubatees : 21 supported till now Present Incubatees : 19

Graduated Incubatees : 2 Jobs created by Incubator : 4





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IITM Bioincubator

Location: IIT Madras, Chennai, Tamil Nadu



: 12

: 7

Focus Area: Bio-pharmaceutical, Bio-agriculture, Bio-industrial, Bio-informatics

Total area: 9300sqft with Lab space of 3310 sqft

Specialized facilities: Microbiology and Cell Culture, Molecular Biology, Downstream Processing and Biomolecular analytics

Funding Opportunities: IITMIC funding, BIRAC SEED Fund

Ecosystem related Support: Research Park, Sophisticated Analytical Facility, Research Institutes, UIC, Industries, TICEL Biopark. A vast network of researchers, faculty, businessmen, industrialists, alumni, venture capitalists, governmental agencies and other service providers can be tapped into via the Bio-Incubator

Impact:

 Total no. of Incubatees supported till now

Total no. of Patents granted : 12

Technologies/Products developed : 12

Jobs created by Incubator

• Jobs created by Incubatees : 46







Biotechnology Business Incubation (BBIF)

Location: FITT, IIT - Delhi

Focus Area: Pharma, Medical Devices, Personal Care, Advance Engg Materials, Bio Informatics and Big data analysis

Total area: 3750 sq ft

Specialized facilities:

Funding Opportunities: BIG/Pfizer Innovation and IP grant/TDB/NIDHI/BIRAC SEED fund/MSME

High End Instruments:

- · Shimadzu UV-Visible Spectrophotometer
- Shimadzu Gas Chromatography System
- Probe Sonicator
- · Esco Biosafety Cabinet
- Elga Water Purification Unit
- Gel Documentation system (Bio-Rad)
- 3D Printer

Ecosystem related Support: The startups at BBIF leverage IIT Delhi Infrastructure and intellectual resources. FITT provides needful handholding and mentorship support drawing upon its vast network of business leaders, industry professionals and investors.

Impact:

- Total Resident Incubatees : 14 supported till now
- Present Incubatees : 10
- Graduated Incubatees : 3
- Technologies/Products developed: 13
- Jobs created by Incubator : 4
- Jobs created by Incubatees : 110





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Society for Bio-Technology Incubation Center



Location: Hyderabad, Telangana

Focus Area: Biotechnology

Total area: 34,667 sq.ft with Total Lab Space of

26920 sq.ft

Specialized facilities: 16 R & D laboratories available on lease, cGMP compliant pilot plant facilities, common laboratory, analytical facilities, utilities and power back up/UPS with basic laboratory infrastructure

Pilot Plant facility for Microbial & Cell Culture activities with 20 L, 30 L & 200 L fermenters, Meeting room, Video Conferencing facility, Plug & Play office space

Funding Opportunities: Access to BIRAC/Govt. and Private funding opportunities

High End Instruments: Analytical lab, Mass Spectrometry, Confocal imaging, flow cytometry, next generation genomics, High through put screening **Ecosystem related Support**: Advance instrumentation facility, Support to regulatory issues, Meeting and Conference rooms, Business Development support services.

Impact:

• Total Resident Incubatees : 45 supported till now

• Present Incubatees : 20

• Graduated Incubatees : 25

Note: Under BioNEST BIRAC has supported a High end equipment facility at SBTIC. Other facilities have been created under DBT support





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KIIT Technology Business Incubator

Location: Bhubaneswar, Odisha

Focus Area: Bio-pharmaceutical, Bio-services, Bio-agriculture, Bio-industrial, Bio-informatics

Total area: 30,000 sqft with total Lab space of 18,000 sqft

Specialized facilities:

- Analytical instruments and facilities, Cell Culture, BSL - 2 Laboratory, Facility for Protein Expression, Purification and Characterisation
- Animal House facility available
- Access to Medical Facilities (Kalinga Institute of Medical Sciences)

Funding Opportunities: BIRAC-BIG & SIIP, MSME Support grant, NIDHI PRAYAS, NIDHI EIr, INVENT, BIRAC SEED FUND, TIDE, NSTDEB SEED FUND, Access to angel and VC funding

High End Instruments: GC MS/MS, LC MS/MS, DuoFlowChromatography System with

BioFrac Fraction Collector, AKTA Pure M with Fraction Collector-GE, Cary 630 FTIR(Agilent), 4200 MP-AES(Agilent), 5100 ICP-OES(Agilent) among others

Ecosystem related Support: National Institute of Science Education and Research (NISER), Institute of Lifesciences (ILS), AIIMS, CRRI, ICMR, Regional Plant Resource Centre (RPRC), Institute of Minerals and Materials Technology (IMMT), CIFA, Central Institute of Plastics Engineering & Technology CIPET, KIMS

Impact:

 Total Resident Incubatees : 46 supported till now

Present Incubatees : 38Graduated Incubatees : 8

Technologies/Products developed : 23Jobs created by Incubator : 12

Jobs created by Incubatees : 107





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RCB_BioNEST



Location: NCR Biotech Science Cluster, Faridabad

Focus Area: Bio-pharmaceutical, Bio-services, Bio-industrial, Bio-informatics etc.

Total area (along with total lab space):

Total area of 39,000 square feet with 20,000 square feet lab space

Specialized facilities: Wet Lab, Dry Lab, Common instrument facility, Bacterial culture Lab, Utility Lab, Cell Culture Lab, BSL II facility, Animal house with state of art facility for mice

Funding Opportunities: BIRAC's BIG scheme, other government funds

High End Instruments: FACS, High content screening system with robotics, Cryogenic TEM, Fast Protein Liquid Chromatography, Malditoftof, Genetic analyser etc.

Ecosystem related Support: Incubatees will have access to facilities at RCB (Regional Center for Biotechnology), ATPC (Advanced Technology Platform Centre) and other Cluster Institutes

Note: The facility will be operational by Q3, FY2018





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MedTech Incubator (MTI) IIT Madras - HTIC

Location: Chennai. TamilNadu

Focus Area: Medical Technology - Devices, Services, Deep Learning, Platforms

Total area: Incubation 2000 sq feet. Lab space 900 sq ft and common space 443 sq feet

Specialized facilities:

- Access to IIT Madras Health Technology innovation center (HTIC) is available
- · Access to clinical facility and doctors
- · Research, engineering, validation support from HTIC

Funding Opportunities: IIT Madras Innovation fund may provide seed grant/ loan subject to the availability of funds, the seed grant of Rs 5 lakh and maximum Rs 25 lakh as loan. Support in applying grants from BIRAC and other Govt. funding schemes such as PRISM etc. are available. Also linking to VC and angel networks is available.

High End Instruments:

- Prosim 8 Vital Signs Simulator Std Accessories
- Prosim SPO2 Test Module
- Fluke 566-Infrared and Contact Thermometer
- · Ultrasonics ultrasound machine
- N9916A 30 kHz to 14 GHz FieldFox Handheld Spectrum Analyzer
- NI PXIe system for testing and prototyping
- NI Virtual Bench



- HCT 900 21 Hot Air Convection Tool
- Segger 8.12.00 Hardware: J-Link Pro; USB and Ethernet driven JTAG
- HR2000+ Composite Grating Spectrometer
- GSR Amp and electrodes
- Masimo Radical 7
- M8005A Intellivue
- Tanita body composition monitor MC-780

Ecosystem related Support: IIT Madras Research Park facilities and companies support, access to all departments of IITM, other IIT Madras Incubators, IITM centers for excellence, local associations i.e. TIE Chennai, Madras Chamber, Madras Management Associations and local angel networks.

1	mpact:		
•	Total Resident Incubatees supported till now	:	4
•	Total Resident Pre-Incubatees supported till now	:	7
•	Present Incubatees	:	4
•	Present Pre-Incubatees supported	:	6
•	Technologies/Products developed	:	4
•	Jobs created by Incubator	:	4
•	Jobs created by Incubatees	:	26
•	Jobs created by Pre-Incubatees	:	17



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MS Swaminathan Bio-incubation Centre



Golden Jubilee Biotechpark for Women, Chennai

Location: Chennai, Tamil Nadu

Focus Area: Nutraceuticals & Cosmeceuticals, Medical Devices & Diagnostics, Food processing, Value addition of Agri/ Aqua/ NTFP resources

Total area: 5000 sqft

Specialized facilities:

- Instrumentation facilities for molecular biology, proteomics and bioprocess technology
- Separate clean room for Microbiology and Cell Culture with BSL II facility
- · Walk-in cold room

High End Instruments: HPLC, Preparative HPLC, Multi-mode reader

Ecosystem related Support: MoU with SPINCO Chennai as the training partner

Impact:

- Total Resident Incubatees : 3 supported till now
- Present Incubatees : 3
- Jobs created by Incubator : 3
- Jobs created by Incubatees : 7





Contact Details:

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Ahmedabad University BioIncubator

Location: Ahmedabad, Gujarat

Focus Area: Medical Devices, Diagnostics, Bioinformatics, Biologics, Waste Management and Water, Agri-Biotech

Total area (along with total lab space): 6350 sft with lab space of 4300 sft

Specialized facilities:

- · BSL3 facilities
- Microbiology Lab, Molecular Biology Lab, Cold Room, Animal Cell Culture Lab, Analytical Lab
- Raising funds for 200L scale Microbial Platform Process Development Labs with upstream, downstream and clean room (the infrastructure shell will be set by July for this, while we are raising funds for the equipment)

Funding Opportunities:

- Entrepreneur in Residence support uptil Rs 3.5L/year
- NIDHI Prayas support to the tune of Rs 10L for prototyping hardware related projects such as medical devices

- NIDHI Seed Support Scheme of Rs 25L
- Assist in availing Govt of Gujarat Startup Policy and Gujarat State Biotechnology Mission support
- Assist in BIG grants and other grants such as PRISM

High End Instruments: FPLC, Semi-prep HPLC, Mass Spec, Potentially 200L Fermenter

Ecosystem related Support: Access to laboratories in Ahmedabad University

Impact:

- Total Resident Incubatees : 3 supported till now
- Present Incubatees : 3
- Technologies/Products developed :
- Jobs created by Incubator : 2

: 5

Jobs created by Incubatees





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Bangalore BioInnovation Center



Location: Bangalore, Karnataka

Focus Area: Bio-pharmaceutical, Bio-services, Bio-agriculture, Bio-industrial

Total area:

Specialized facilities: Microbiology and Cell Culture, Molecular Biology, Downstream Processing and Biomolecular analytics

Funding Opportunities: Idea2Poc, ELEVATE and Seed Funds

Ecosystem related Support: Institute of Bioinformatics and Applied Biotechnology, Centre for Human Genetics

A vast network of researchers, faculty, businessmen, industrialists, venture

capitalists, governmental agencies and other service providers can be tapped into via the Bio-Incubator

High End Instrumentation:

- Cell Sorter
- Real Time PCR (rTPCR)
- Gas Chromatography (GC)
- Liquid Chromatography and Mass Spectrometer (LCMS)
- Confocal Microscopy

The facility under BioNEST will be operational in Q1 of FY18-19





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Agri BioNEST

(A joint initiative of a-IDEA NAARM & ABF)

Location: Rajndranagar, Hyderabad.

Focus Area: Agri Biotech/Bio-Agriculture

Total area: 10,500 Sqft. with Lab space of 6500 sqft.

Specialized facilities: A state of art wetlab facility for incubatees in three segments i) Plant tissue Culture ii) Molecular Biology (Marker Assisted Breeding & Transgenic), iii) Microbiology. Apart from this, technologies for production of bio-fertilizers, bio-pesticides, tissue culture plants, bio fortifies vegetable seedlings, technologies for soil & water testing, liquid organic manure, testing & seed quality testing through Marker Assisted Selection are available. In addition, shared net facilities, polyhouses are provided to entrepreneurs.

Funding Opportunities: Agri BioNEST may provide seed fund in tune of 25 Lakhs subject to availability of funds/schemes to the promising entrepreneurs/startups. The funding could also be facilitated through institutional investors including Angels, HNIs, VCs & PEs. The incubator does also support in securing the Govt. funding schemes like TIFAC, BIG, SIBRI, PRISM, PACE, SIIP, SPARSH, Grand Challenge etc.

High End Instruments: HPLC, Fermenter, Fluorescent Microscope, UV-Spectrophotometer, Ultra Centrifuge, Deep Freezer (-80), RT PCR, BOD Incubator, Gel DOC, Stereo Zoom Microscope, Gradient PCR

Ecosystem related Support: Agri BioIncubator leverages the partnership strength and allows the entrepreneurs to take maximum benefits. At present, the incubator has more than 30 partners locally & nationally across sectors across functions. The current locality has more than 8 R&D institutions of national importance including PJTS Agri University.

Impact:

• Total Resident Incubatees : 4 supported till now

Present Incubatees : 4
Technologies/Products developed : 2
Jobs created by Incubator : 4

• Jobs created by Incubatees : 12









Contact Details:

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Society for Innovation and Entrepreneurship



Location: Mumbai, Maharashtra

Focus Area: Bio-medical devices, Diagnostics, Bio-pharma, Bio-agri, Bio-informatics

Total area (along with total lab space): 4500 sqft with lab space of 2500 sq ft

Specialized facilities:

- SINE's in-house prototyping lab facilities
- Access to IIT Bombay common lab facilities such as Tata Centre lab, Bioengineering Technology Incubation Centre (BETiC) lab etc.

Funding Opportunities:

- Seed support funding up to Rs. 35 lakhs
- Facilitation of Govt grants such as BIG, IIPME, SPARSH etc.
- Access to Angel investors and VCs

High End Instruments:

Sophisticated Analytical Instrument Facility (SAIF) - http://www.rsic.iitb.ac.in/facility.html

Ecosystem related Support:

- · Access to all departments at IIT Bombay
- Cross disciplinary applied research centres such as Bioengineering technology incubation centre (BETiC), Tata Centre, Desai Sethi



Centre for Entrepreneurship, Wadhwani Research Centre for Bioengineering (WRCB), Healthcare Research Consortium (HRC)

- Industrial Research & Consultancy Centre (IRCC) for technology transfer, patent related support
- MoU's with national and international incubation centres
- Joint programs with corporate partners
- Cross border programs with international partners
- Student bodies Entrepreneurship Cell, Tinkering lab, Student Technical Activities Body (STAB), Research Scholars Forum (RSF), Entrepreneurship Club, Abhyuday etc.

Impact:

Total Resident Incubatees supported till now
Present Incubatees
Graduated Incubatees
Technologies/Products developed
Jobs created by Incubatees
Jobs created by Incubatees
108



Contact Details:

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BITS BIRAC BIONEST

Location: BITS Pilani, Goa

Focus Area: Health & Environment

Total area: 1,500sq.ft. office space and 2000 sq.ft. wetlab.

Specialized facilities: Microbiology Lab, Molecular Biology, Environmental Biology Lab, Biosafety Level II, Environmental Engineering and Videoconferencing facility

Funding Opportunities: Seed fund from BIRAC BioNEST, BITS Alumni Funds/Trusts, Institute funds to faculty from Research Initiation Grant, Bill & Melinda Gates Foundation, Vinnova, DBT, National Innovation Fund, DBT Welcome Trust

High End Instruments: Spray Drier, HPLC, TOC Analyzer, Inverted Fluorescence Microscope, Gel documentation System LC-MS-MS, AT SEM with Microtome Ecosystem related Support: Active support of University CIIE(Center for Innovation, Incubation & Entrepreneurship). Besides BioNEST has access to all departments of BITS, Pilani Goa Campus; including Labs, Entrepreneurship Education, Sandbox along with Network of Scientists, Entrepreneurs & investors.

Impact:

- Total Resident Incubatees supported till now: to commence from May 2018
- Present Incubatees: 02 (Associated)
- Jobs created by Incubator: 02





Contact Dotaile:

Prof. Mridula Goel, Incharge, BITS BIRAC BioNEST Office: 91-832-2580254 Mobile: 9623524404 E-mail: mridula@goa.bits-pilani.ac.in Website: http://www.bits-pilani.ac.in/goa/CIIE/Incubator

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IKP EDEN

Location: Bangalore, Karnataka



Focus Area: Biomedical engineering, Medical Devices, Diagnostics, Digital Health, Bio-informatics, AI/ML based solutions

Total area: 6762 sqft with Lab space of 3945 sqft

Specialized facilities:

- · BSLII facility available
- · Access to engineering facilities
 - Metal working shop (milling machine, lathe, welding, sheet metal cutting and bending, welding (TIG, MIG and Arc), gas cutting, sand blasting, spray painting, power tools, measurement tools, fastening and polishing tools)
 - o Wood working shop (power tools, CNC routing, hand tools, finishing tools)
- o Plastics, and 3D Printing Lab (3D printing, Injection Molding, Acrylic CNC)
- o Electronics lab (Oscilloscopes, Function Generator, Power Supply, RaspberryPi, Arduino, Cypress Bluetooth Boards, Soldering Stations)
- Access to Clinical facility (in partnership with St Johns Research Institute and Narayana Health)
- Access to facilities in IKP Hyderabad Analytics facility



Funding Opportunities: BIRAC BIG & GCE Partner and BIRAC SEED funding is also available, IKP works with USAID making grants in the space of Ag-Nutrition, and with the Karnataka Govt on challenges in healthcare, water sanitation, pest control in agriculture, women empowerment, and education. IKP EDEN has been chosen as a Prayas Center by DST and implementation partner SINE.

Ecosystem related Support:

IPR & Legal, Business mentoring, IKP-EDEN™ has established relationships with various organizations which provide consultancy services to startups. Through its vast network of mentors, IKP-EDEN™ provides support to start-ups in various activities like fund raising, human resource management, technology support, compliance etc. Market Access Platform for Startups are also available.

Impact:

Total Resident Incubatees
supported till now
Present Incubatees
Graduated Incubatees
Technologies/Products developed
Jobs created by Incubator
Jobs created by Incubatees
45



Contact Details: Vikraman Venu

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@ICAR-IIHR, Bangalore

Location: Hesaraghatta, Bangalore

Focus Area: Bio-Agriculture & Bio-Services

Total area (along with total lab space): Total area 6000 Sq fts and lab space is 2200 Sq fts

Specialized facilities:

- BSLII facility
- Video conferencing room
- Access to Clinical facility (Institutes Dispensary with full time Doctor & Primary Health Care Centre of Hessaraghatta TB

Funding Opportunities:

- Banks
- Angel Investors

High End Instruments: HPLC, LCMS, Vitek System of Bacterial Identification, Automated

Rainout Shelter with accessories, CASIO-XJ-M-146 Laser LED PROJECTOR, NUTRIENT Analyser with accessories, Thermo TSQ Endura Triple

Ecosystem related Support: Horticulture Research Organization under ICAR

Impact:

- Total Resident Incubatees : 3 supported till now
- Present Incubatees : 6
- Technologies/Products developed : 15Jobs created by Incubator : 5
- Jobs created by Incubatees : 20





Contact Details:

Dr. Sudha Mysore, Chairman ZTMC, PI ABI, ICAR-IIHR, Hesraghatta, Bangalore – 560089 Email: sudhamys@qmail.com Website: https://www.iihr.res.in



BioNcube ICRISAT

Location: Hyderabad, Telangana





Total area: 24,000 sqft with Lab space of 18,400 sqft

Funding Opportunities: Will use their existing and growing network of angel investors and VCs to help the incubatees in scaling-up their operations. The grant schemes run by BIRAC is another avenue that would be used by the incubator.

Ecosystem related Support: Agri-Business Incubator of ICRISAT, T-Hub, IKP, Network of VC and angel investors, Mentors

BioNEST at ICRISAT is gearing up towards starting operations, since it was sanctioned late last year. However, given their expertise in running the Agri-Business Incubator of ICRISAT they have the right ecosystem to nurture the incubates.

High End Instrumentation:

- HPLC Total Unit
- Biolistic & Accessories PDS-1000
- LCMS

The facility under BioNEST will be operational in FY18-19







BioNEST-Panjab University (BN-PU)

Location: Panjab University, Chandigarh

Focus Area: Biopharmaceuticals, Bioprocess Technology, Food and Agriculture (thrust on secondary agriculture)

Total area: 10,000 sq. ft.

Specialized facilities: High end USP and DSP laboratories, dedicated area for biosafety work, dedicated cell culture facility with state of the art instruments, 3-D graphics Laboratory.

Funding Opportunities: Providing start-up seed fund through Corporate Social Responsibility, supporting applications for schemes like BIG, SBIRI etc.

High End Instruments: High Performance Liquid Chromatography with PDA and ELSD

detectors, Bioreactors for scale up to 25 litres, large scale ultrafiltration system.

Ecosystem related Support: CRIKC institutions in and around the city of Chandigarh, Network with the State Science Council (it has a dedicated TIFAC Centre for IP support), industrial belt at Baddi (H.P.)

Impact:

- Total Resident Incubatees : 5 supported till now
- PresentIncubatees : 5Technologies/Products developed : 1
- Jobs created by Incubator
 Jobs created by Incubatees
 3





Contact Details:

Dr Kiran K Sharma, Principal Scientist Cell Biology Director PTTC CEO AIP-ICRISAT Email ID: k.sharma@cgiar.org Website: http://www.aipicrisat.org/

Contact Details:

Dr. Rohit Sharma, Project Leader, BioNEST-PU, Associate Professor and Chairperson DMBT, Panjab University, Chandigarh-160014 Email: rohit28@pu.ac.in



Sanctuary of Innovation, Incubation and Entrepreneurship



Location: Ahmedabad, Gujarat

Focus Area: Life science based

Total area (alongwith total lab space): 13550 sq. ft. with lab space of 6970 sq.ft.

Specialized facilities: Analytical Lab, Phytochemistry Lab, Microbial Lab, BSL II facility available

Funding Opportunities: SEED support and Start-Up support fund for the Incubatees

High End Instruments: HPTLC, HPLC, Micro Biological Safety Cabinet, Fermenter, ELISA with Washer, Shaker, Lyophiliser, AAS, GC

Ecosystem related Support: Many GYTI winners and other innovators who have submitted their projects to techpedia.sristi.org are now trying to develop their enterprises based on their innovations. SRISTI, after realizing various need gaps for interacting with these innovators and their stakeholders, has been closely working with various public agencies and stakeholders to develop a holistic framework at university, regional and at national levels to promote student entrepreneurship driven by innovation. Recently, a national round table was co-ordinated by inviting stakeholders from IITs, NITs, IIMs, state

universities, investors, alumni networks, incubation managers and public policy makers. SRISTI is also coordinating the implementation strategies of such projects so that the policies and intervention attain their optimum desired goals. SRISTI Innovations BioNEST will carry forward these activities and scale them up across India and design implementation processes for these policies.

Bio Incubator-SIIE management team at SRISTI Innovations brings in huge experience from industry, R&D and practical experience from grassroots. The BioNEST is catering the microbial leads (Antimicrobial, Bio control, Bioremediation), innovations of students (Bioengineering/Biotech, Biomedical Engineering, Environmental Engineering, Food technology, Nano Science and Engineering, Pharmacy, Rural Development and allied areas) and traditional knowledge related grassroots innovations for sustainable crop production.

Impact:

Present Incubatees

: 2





Contact Details:

SRISTI INNOVATIONS, AES Boy's Hostel Campus.Nr.Gujarat University Library and SBI, Navrangpura, Ahmedabad-380009, Gujarat E-mail-pmuqyti@sristi.org Website-http://www.sristi.org/cms/sristi-birac



University of Hyderabad BioNEST

Location: Hyderabad

Focus Area: Life Sciences, Biotechnology, Healthcare, and Allied Areas

Total area (along with total lab space): 20,000 SFT (12,000 SFT Lab Space)

Specialized facilities: Basic infrastructure for any biology lab, including spectrophotometer, centrifuges, PCR, Freezers, analytical and semi-preparative HPLC systems with Diode Array Detector, Cell and microbial culture facilities like incubators, microscopes etc.

Funding Opportunities: UoH-BioNEST is recently inaugurated on the 28th February, 2018 with the support of University of Hyderabad and BIRAC. The incubator is gearing up for seeking additional seed funding opportunities from various Government of India sources.

High End Instruments: Genomics, Proteomics, Metabolomics, BSL3, FACS, Confocal Microscopes, High Resolution Microscope for live cell imaging, Live animal imaging, SPR etc (within the School of Life Sciences, UoH)

Ecosystem related Support: Strong subject matter expertise in life sciences of 60-faculty (SLS), Interdisciplinary expertise of different (Chemistry, Physics, Management etc.), access to technical experts as mentors, Venture Capitalists, industrialists; Ecosystem of leading Pharma, Biotech and IT companies, leading academic institutions like CCMB, CDFD, IICT, NIN, NIAB, TCIS, ISB, IIL, IIIT, IIT etc within a radius of 30 to 40 Kms

Impact:

Jobs created by Incubator

: 5





Contact Dotaile:

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PSG - Science and Technology Entrepreneurial Park (PSG - STEP)



: 25

Location: PSG College of Technology, Coimbatore, Tamil Nadu

Focus Area: Health Care Applications, Industrial Bio Applications, Veterinary Applications

Total area: 6140 sqft

Specialized facilities:

- Analytical Lab, Bioprocess Lab, Molecular Lab, Utility Lab
- · Clean Room for Animal Cell Culture
- Animal House with state-of-art-facility for rats, rabbits, mice and pigs
- Access to Clinical Facility
- Characterization Facility TEM, SEM, AFM Facility
- Clean Room Facility of Class 1000 and Class 10000
- · Rapid Prototyping Facility
- Fab Lab Facility

Funding Opportunities: PSG-STEP, through various funding support, extends Rs 3.60 lakh – Rs. 50 lakh as Fellowship Support, Idea to Prototype Grant and Seed Fund as debt or equity to startups.

High End Instruments:

• High Performance Liquid Chromatography



- Bioreactor (10L)
- Homogenizer
- Nanodrop
- Lyophilizer
- Real-time PCR

Ecosystem related Support:

- Pre-incubation Support & Co-working Space in Incubation Centre
- "Startup 360" Boot Camp for Startup Co-Founders
- Human and Animal Ethics Committee of PSG IMSR
- · Internship Support
- Mentoring from PSG Hospital Doctors & Experts
- IPR Support

Impact:

- Total Resident Incubatees : 12 supported till now
- PresentIncubatees : 12
- Jobs created by Incubator : 02

Jobs created by Incubatees





Dr K Suresh Kumar, Executive Director

Email ID: step@psqtech.edu Mobile: 9952427232 Website: http://www.psqstep.org



VIT-Technology Business Incubator (VITTBI)

Location: Vellore, Tamil Nadu

Focus Area: Medical Devices

Total area (alongwith total lab space): 6000 Sq.ft

Specialized facilities:

http://www.vit.ac.in/academics/schools/sbst http://www.vit.ac.in/files/events_brochure/Bi rac_BioNest.pdf

http://www.vittbi.com/#/infrastructure

Animal facility

(Albino Wistar rats/mouse/rabbits)
Blab C mice for Monoclonal antibody
production Zebra fish / Crabes /

Funding Opportunities: VITTBI may provide seed loan subject to the availability of funds/grants/schemes meant for this purpose

High End Instruments: UPLC / Imaging System / Biospectrometer / Electrophoresis / PCB printing / 3D Printing

Ecosystem related Support: Connect with mentors/ angel investment networks / access to talent

Impact:

(BioNEST program commenced from Dec 2017)

 Total Resident Incubatees supported till now

• Present Incubatees : 2

: 2

: 3

Jobs created by Incubator





Contact Details: **Dr. A. Balachandran,** General Manager

Email: vittbi@vit.ac.in_website: www.vittbi.com







Somaiya BioRiiDL BioNest



Location: Vidyavihar, Mumbai

Focus Area: Food, Biotechnology, Healthcare, Agriculture

Total area (alongwith total lab space): 8550 sq. ft.

Specialized facilities:

- Cell culture facility, Analytical lab, Microbial lab, Fermentation lab, Molecular biology lab
- · Clinical facility at K.J. Somaiya Hospital
- Access to agricultural field trial at Sakarwadi, Samirwadi, Laxmiwadi and Karnataka
- Fabrication laboratory for Hardware devices
- Cloud services

Funding Opportunities:

Provide early stage prototype funding to our startups of upto 1 lakh and seed funding from 5 to 10 lakhs depending upon the proposal and product. Also have Private investors and VCs who invest in startups.

High End Instruments:

- Flow cytometer
- Inverted Fluorescence microscope
- CO2 incubator
- HPLC
- · GC-MS
- · RT-PCR

Ecosystem related Support:

Huge Somaiya campus having 34 institutes, 38,000 students and 1800 faculties supporting our initiative and startup culture. College facilities are also used by our startups when required.

Impact:

Total Resident Incubatees : 17 supported till now
 Present Incubatees : 17
 Technologies/Products developed : 17
 Jobs created by Incubator : 7
 Jobs created by Incubatees : 8





Contact Details: **Bhavna Pandya,** Project Coordinator
Email Id-bhavna.pandya@somaiya.edu Phone Number-9821554344 Website-www.bioriidl.org





LV Prasad Eye Institute

Location: Hyderabad

Focus Area: Medical devices, diagnostics and

Helthcare technology

Total area supported: 10,000 Sqft

Contact Details:

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IIIT Hyderabad

Location: Hyderabad

Focus Area: Medical technology

Total area supported: 8,000 Sqft

Contact Details:

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Note: Bioincubators at LVPEI & IIIT Hyderabad have been sanctioned support this year.

BioNEST Facility will be operational in FY 18-19.

